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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/030,825	01/11/2002	Yasunori Takada	56769 (71526) 2372		
21874 7590 06/13/2007 EDWARDS ANGELL PALMER & DODGE LLP P.O. BOX 55874			EXAM	EXAMINER	
			WEBMAN, EDWARD J		
BOSTON, MA	02205		ART UNIT PAPER NUMBER		
			1616		
			MAIL DATE	DELIVERY MODE	
			06/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary						
		10/030,825	TAKADA ET AL.			
		Examiner	Art Unit			
		Edward J. Webman	1616			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
	Responsive to communication(s) filed on <u>28 March 2007</u> .					
	This action is FINAL . 2b)⊠ This action is non-final.					
3)∐	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1,4,5 and 7-10 is/are pending in the ap 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1,4,5 and 7-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
	The specification is objected to by the Examiner					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioric application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen		4) 🗀 lator : 0	(PTO 412)			
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5, 7, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patel et al.

Patel et al teach a topical gel composition containing medicaments (abstract). 0.005% to about 10% medicament is specified (column 4 lines 48-49). Diclofenac is disclosed (column 4 line 67). Ammonium chloride at 0.01-5% is specified (column 8 lines 19-38). Sustained efficacy is disclosed (column 3 line 13).

It would have been obvious to one of ordinary skill in the art to make a composition comprising a gel including diclofenac and ammonium chloride to achieve the beneficial effect of sustained efficacy in view of Patel et al. As to the claimed molar ratio, the molar range of diclofenac is 0.0002-0.9 moles per liter and that of ammonium chloride is 0.002-0.3 moles /per liter. That is, the molar ranges overlap, including 1:1 ratio. An optimum suitable range is obtained by routine experimentation.

Claims 1, 4, 5, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ledger et al in view and Inagi et al.

Ledger et al teaches a matrix for transdermal administration of a drug and an antigen processing-inhibiting agent is disclosed (abstract). 0.2%-20% weak base antigen processing-inhibiting agent of the drug is disclosed (column 9 lines 64-68).

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Ammonium chloride is specified (column 5 line 34). Analgesic agents including ibuprofen are disclosed (column 4 lines 45 and 63). An adhesive layer containing the agent and drug is specified (column 7 lines 8-9). Ointments are disclosed (column 6 line 37). Reducing sensitization is specified (column 3 lines 34-37).

It would have been obvious one of ordinary skill to make a matrix comprising an analgesic such as ibuprofen and ammonium chloride to achieve the beneficial effect of reducing sensitization. As to the claimed diclofenac and adhesive base, Inagi et al teach the equivalence of ibuprofen to diclofenac as an analgesic (column 8 lines 1-8) in an acrylic adhesive base material (abstract). Thus, it would have been further obvious to use diclofenac as the analgesic and acrylic as an adhesive in the composition of Ledger et al in view of the fact that the former is known in the art as equivalent to ibuprofen and the latter is known in the art as an adhesive in view of Inagi et al. As to the claimed molar ratio, 0.2-20% ammonium chloride of diclofenac is equivalent to 0.04-0.4 moles of the ammonium chloride to 0.3 moles of diclofenac. That is, the molar range of ammonium chloride overlaps the molar amount of diclofenac to include a 1:1 ratio. An optimum suitable range is obtained by routine experimentation.

No claims allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward J. Webman whose telephone number is 571-272-0633. The examiner can normally be reached on M-F from 8 AM to 5 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. Richter, can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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